

Claims

1. A video processing apparatus for an input video signal, comprising:
 - a random number generator to generate scramble key information;
 - a watermark generator to generate a watermark signal including the scramble key information concerning a previous video picture;
 - a multiplexer to multiplex the watermark signal on the input video signal to generate a multiplexed signal;
 - an encoder to encode the multiplexed signal to output encoded video data; and
 - a scrambler to scramble the encoded video data to generate scrambled video data.

2. The video processing apparatus according to claim 1, further comprising a descrambler to descramble the scrambled video data using the scramble key information concerning the previous video picture to generate a descrambled video signal.

3. A video processing apparatus for an input video signal, comprising:
 - means for generating scramble key information;
 - means for generating a watermark signal including the scramble key information concerning a previous video picture;
 - means for multiplexing the watermark signal on the input video signal to generate a multiplexed signal;
 - means for encoding the multiplexed signal to output encoded video data; and
 - means for scrambling the encoded video data to generate scrambled video data.

4. The video processing apparatus according to claim 3, further comprising means for descrambling the scrambled video data using the scramble key information concerning the previous video picture to generate a descrambled video signal.

5. A video processing method for an input video signal, comprising:
generating scramble key information;
generating a watermark signal including the scramble key information concerning a previous video picture;
multiplexing the watermark signal on the input video signal to generate a multiplexed signal;
encoding the multiplexed signal to output encoded video data; and
scrambling the encoded video data to generate scrambled video data.

6. The video processing method according to claim 5, further comprising means for descrambling the scrambled video data using the scramble key information concerning the previous video picture to generate a descrambled video signal.